

ABSTRACT

Methods, systems and devices for communicating between a host optical systems controller and an optical subcontroller. A database residing in the optical subcontroller contains multiple possible valid command identifiers which define the format of any data following the command identifiers. Each device is equipped with a copy of the database. Each command identifier can be paired with a different action for a different device based on the database mapping. These command identifiers are sent from the host to the subcontroller with each command denoting a specific action to be taken by the subcontroller. Upon receipt of the command message, the subcontroller will determine the interpretation of a command identifier contained in the command message and execute the action associated with that command identifier. The subcontroller will then send a response message back to the host controller indicating the success or failure of the action denoted by the command identifier.